This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 Claim 1 (currently amended): A system for providing
- 2 capitalization correction for unstructured excerpts,
- 3 comprising:
- a preprocessor to tokenize an excerpt of
- 5 unstructured content into a set of words; and
- a capitalizer to analyze the set of words for
- 7 correct capitalization, comprising:
- 8 an evaluator to evaluate individual characters
- 9 constituting at least one such word in the set of
- 10 words; and
- a filter to skip the at least one such word if
- 12 determined to be of a predefined type such that the
- 13 capitalizer does not capitalize the at least one such
- 14 word.
 - 1 Claim 2 (currently amended): A system according to
 - 2 Claim 1, further comprising:
 - a document title capitalizer to provide one or
 - 4 more of the words with an initial letter in uppercase
 - 5 and each remaining letter in lowercase.
 - 1 Claim 3 (original): A system according to Claim 1,
 - 2 further comprising:
 - a sentence capitalizer to provide only an initial
 - 4 such word with an initial letter in uppercase and each
 - 5 remaining letter in lowercase.

- 1 Claim 4 (currently amended): A system according to
- 2 Claim 1, further comprising:
- 3 a word analyzer to skip at least one of each such
- 4 wherein the predefined type is one of (A) a word
- 5 comprising a number, each such (B) a word including no
- 6 vowels, and each such (C) a word not occurring at a
- 7 start of a phrase and constituting at least one of an
- 8 article, conjunction, preposition.
- 1 Claim 5 (original): A system according to Claim 1,
- 2 further comprising:
- a lexicon comprising one or more reference words
- 4 with at least one reference word defining a form of
- 5 capitalization for the reference word;
- a matcher to match the at least one such word
- 7 against the reference words, the evaluator skipping
- 8 each such word if a matching reference word is found.
- 1 Claim 6 (currently amended): A system according to
- 2 Claim 1, further comprising:
- a proper noun capitalizer to provide <u>each of</u> the
- 4 individual letters in each such word comprising a noun
- 5 with no vowels in uppercase.
- 1 Claim 7 (currently amended): A system according to
- 2 Claim 1, further comprising:
- 3 a tokenizer to tokenize wherein the preprocessor
- 4 tokenizes the excerpt into the one or more words and
- 5 one or more punctuation marks.

- 1 Claim 8 (currently amended): A method for providing
- 2 capitalization correction for unstructured excerpts,
- 3 comprising:
- 4 tokenizing an excerpt of unstructured content
- 5 into a set of words; and
- analyzing the set of words for correct
- 7 capitalization, comprising:
- 8 evaluating individual characters constituting at
- 9 least one such word in the set of words; and
- skipping the at least one such word if determined
- 11 to be of a predefined type such that the capitalizer
- 12 does not capitalize the at least one such word.
- 1 Claim 9 (original): A method according to Claim 8,
- 2 further comprising:
- 3 providing one or more of the words with an
- 4 initial letter in uppercase and each remaining letter
- 5 in lowercase.
- 1 Claim 10 (original): A method according to Claim 8,
- 2 further comprising:
- 3 providing only an initial such word with an
- 4 initial letter in uppercase and each remaining letter
- 5 in lowercase.
- 1 Claim 11 (currently amended): A method according to
- 2 Claim 8, further comprising:
- 3 skipping at least one of each such wherein the
- 4 predefined type is one of (A) a word comprising a

- 5 number, each such (B) a word including no vowels, and
- 6 each such (C) a word not occurring at a start of a
- 7 phrase and constituting at least one of an article,
- 8 conjunction, preposition.
- 1 Claim 12 (original): A method according to Claim 8,
- 2 further comprising:
- maintaining a lexicon comprising one or more
- 4 reference words with at least one reference word
- 5 defining a form of capitalization for the reference
- 6 word;
- 7 matching the at least one such word against the
- 8 reference words; and
- 9 skipping each such word if a matching reference
- 10 word is found.
 - 1 Claim 13 (currently amended): A method according to
 - 2 Claim 8, further comprising:
 - 3 providing <u>each of</u> the individual letters in each
 - 4 such word comprising a noun with no vowels in
 - 5 uppercase.
 - 1 Claim 14 (currently amended): A method according to
 - 2 Claim 8, further comprising: wherein the act of
 - 3 tokenizing includes tokenizing the excerpt into the
 - 4 one or more words and one or more punctuation marks.

Claim 15 (canceled)

- 1 Claim 16 (currently amended): An apparatus for
- 2 providing capitalization correction for unstructured
- 3 excerpts, comprising:
- 4 means for tokenizing an excerpt of unstructured
- 5 content into a set of words; and
- 6 means for analyzing the set of words for correct
- 7 capitalization, comprising:
- 8 means for evaluating individual characters
- 9 constituting at least one such word in the set of
- 10 words; and
- means for skipping the at least one such word if
- 12 determined to be of a predefined type such that the
- 13 capitalizer does not capitalize the at least one such
- 14 word.
 - 1 Claim 17 (currently amended): A system for building a
 - 2 lexicon for use in capitalization correction for
 - 3 unstructured excerpts, comprising:
 - a ripper assembling a list of word sets from
 - 5 unstructured content, each word set comprising a word
 - 6 and at least one variation on capitalization;
 - 7 an aggregator aggregating each word set,
 - 8 comprising:
- 9 an analyzer identifying at least one word set
- 10 comprising significant statistics; and
- a non-standard capitalization selector selecting
- 12 at least one two such variation variations within the
- 13 identified word set having a non-standard
- 14 capitalization, and adding the at least one two such
- 15 variation variations to the lexicon.

- 1 Claim 18 (original): A system according to Claim 17,
- 2 further comprising:
- a tokenizer tokenizing the excerpt into the one
- 4 or more words and one or more punctuation marks.
- 1 Claim 19 (original): A system according to Claim 18,
- 2 wherein hyphenated words are split into a plurality of
- 3 the words.
- 1 Claim 20 (original): A system according to Claim 17,
- 2 wherein at least one variation appearing at the start
- 3 of a sentence is skipped.
- 1 Claim 21 (original): A system according to Claim 20,
- 2 wherein the non-standard capitalization comprises the
- 3 at least one variation occurring in an excerpt having
- 4 fewer than half of individual letters provided in
- 5 uppercase.
- 1 Claim 22 (currently amended): A system according to
- 2 Claim 17, further comprising:
- a normalizer normalizing a plurality of the words
- 4 extracted relative to a source of the unstructured
- 5 excerpt structured Web content.

- 1 Claim 23 (currently amended): A system according to
- 2 Claim 17, wherein the set comprising significant
- 3 statistics comprises only non-standard capitalization
- 4 variations having at least four occurrences of at
- 5 least one such variation within a word set.
- 1 Claim 24 (original): A system according to Claim 17,
- 2 wherein the non-standard capitalization comprises the
- 3 at least one variation having any individual letter
- 4 other than the first individual letter provided in
- 5 uppercase.
- 1 Claim 25 (currently amended): A system according to
- 2 Claim 17, further comprising:
- a standard capitalization selector selecting at
- 4 least one two such variation variations within the
- 5 identified word set having a standard capitalization,
- 6 and adding the at least one two such variation
- 7 <u>variations</u> to the lexicon.
- 1 Claim 26 (currently amended): A system according to
- 2 Claim 17, further comprising:
- 3 a validator applying implicit rules for
- 4 capitalization, and skipping each of the at least one
- 5 variation two variations subject to at least one such
- 6 implicit rule.

- 1 Claim 27 (currently amended): A system according to
- 2 Claim 26, wherein the implicit rules comprise skipping
- 3 <u>each of the</u> at least one variation two variations
- 4 based on position within a sentence or phrase.
- 1 Claim 28 (currently amended): A system according to
- 2 Claim 26, wherein the implicit rules comprise at least
- 3 one of (A) a number, (B) having no vowels, and (C)
- 4 constituting at least one of an article, conjunction
- 5 and preposition.
- 1 Claim 29 (currently amended): A system according to
- 2 Claim 26, wherein the implicit rules comprise
- 3 normalizing a number of occurrences for each of the at
- 4 least two variations one variation using at least one
- 5 of a normalizing function and relative to a source of
- 6 the <u>each of the</u> at least <u>two variations</u> one variation.
- 1 Claim 30 (currently amended): A system according to
- 2 Claim 26, wherein the implicit rules comprise
- 3 accommodating multiple forms of capitalization for
- 4 each of the at least two variations one variation by
- 5 annotating each capitalization form with a frequency
- 6 count and skipping those of the each of the at least
- 7 <u>two variations</u> one variation occurring infrequently.

- 1 Claim 31 (original): A system according to Claim 17,
- 2 further comprising:
- a hash table maintaining the lexicon.
- 1 Claim 32 (original): A system according to Claim 31,
- 2 further comprising:
- at least one record specifying at least one such
- 4 word as a key into the hash table, and associating at
- 5 least one such variation within the word set as a
- 6 preferred capitalization.
- 1 Claim 33 (currently amended): A method for building a
- 2 lexicon for use in capitalization correction for
- 3 unstructured excerpts, comprising:
- 4 assembling a list of word sets from unstructured
- 5 content, each word set comprising a word and at least
- 6 one variation on capitalization;
- 7 aggregating each word set, comprising:
- 8 identifying at least one word set comprising
- 9 significant statistics;
- 10 selecting at least one two such variation
- 11 variations within the identified word set having a
- 12 non-standard capitalization; and
- adding the at least one two such variation
- 14 <u>variations</u> to the lexicon.
 - 1 Claim 34 (original): A method according to Claim 33,
 - 2 further comprising:

- 3 tokenizing the excerpt into the one or more words
- 4 and one or more punctuation marks.
- 1 Claim 35 (original): A method according to Claim 34,
- 2 further comprising:
- 3 splitting hyphenated words into a plurality of
- 4 the words.
- 1 Claim 36 (original): A method according to Claim 33,
- 2 further comprising:
- 3 skipping at least one variation which may be at
- 4 the start of a sentence.
- 1 Claim 37 (original): A method according to Claim 36,
- 2 wherein the non-standard capitalization comprises the
- 3 at least one variation occurring in an excerpt having
- 4 fewer than half of individual letters provided in
- 5 uppercase.
- 1 Claim 38 (currently amended): A method according to
- 2 Claim 33, further comprising:
- 3 normalizing a plurality of the words extracted
- 4 relative to a source of the unstructured excerpt
- 5 structured Web content.
- 1 Claim 39 (currently amended): A method according to
- 2 Claim 33, wherein the set comprising significant
- 3 statistics comprises only non-standard capitalization

- 4 variations having at least four occurrences of at
- 5 least one such variation within a word set.
- 1 Claim 40 (original): A method according to Claim 33,
- 2 wherein the non-standard capitalization comprises the
- 3 at least one variation having any individual letter
- 4 other than the first individual letter provided in
- 5 uppercase.
- 1 Claim 41 (currently amended): A method according to
- 2 Claim 33, further comprising:
- 3 selecting at least one such variation within the
- 4 identified word set having a standard capitalization,
- 5 and adding the at least one two such variation
- 6 variations to the lexicon.
- 1 Claim 42 (original): A method according to Claim 33,
- 2 further comprising:
- applying implicit rules for capitalization; and
- 4 skipping each at least one variation subject to
- 5 at least one such implicit rule.
- 1 Claim 43 (original): A method according to Claim 42,
- 2 wherein the implicit rules comprise skipping at least
- 3 one variation based on position within a sentence or
- 4 phrase.

- 1 Claim 44 (currently amended): A method according to
- 2 Claim 42, wherein the implicit rules comprise at least
- 3 one of (A) a number, (B) having no vowels, and (C)
- 4 constituting at least one of an article, conjunction
- 5 and preposition.
- 1 Claim 45 (currently amended): A method according to
- 2 Claim 42, wherein the implicit rules comprise
- 3 normalizing a number of occurrences for each of the at
- 4 least two variations one variation using at least one
- 5 of a normalizing function and relative to a source of
- 6 <u>each of</u> the at least <u>two variations</u> one variation.
- 1 Claim 46 (currently amended): A method according to
- 2 Claim 42, wherein the implicit rules comprise
- 3 accommodating multiple forms of capitalization for
- 4 each at least one variation by annotating each
- 5 capitalization form with a frequency count and
- 6 skipping those of the each of the at least two
- 7 variations one variation occurring infrequently.
- 1 Claim 47 (original): A method according to Claim 33,
- 2 further comprising:
- maintaining the lexicon structured as a hash
- 4 table.

- 1 Claim 48 (original): A method according to Claim 47,
- 2 further comprising:
- 3 specifying at least one such word as a key into
- 4 the hash table; and
- 5 associating at least one such variation within
- 6 the word set as a preferred capitalization.

Claim 49 (canceled)

- 1 Claim 50 (original): An apparatus for building a
- 2 lexicon for use in capitalization correction for
- 3 unstructured excerpts, comprising:
- 4 means for assembling a list of word sets from
- 5 unstructured content, each word set comprising a word
- 6 and at least one variation on capitalization;
- 7 means for aggregating each word set, comprising:
- 8 means for identifying each word set comprising
- 9 significant statistics;
- 10 means for selecting at least one two such
- 11 variation variations within the identified word set
- 12 having a non-standard capitalization; and
- means for adding the at least one two such
- 14 variation variations to the lexicon.